

Recombinant human TIMP-1 protein

Catalog Number: ATGP3013

PRODUCT INFORMATION

Expression system

E.coli

Domain

24-207aa

UniProt No.

P01033

NCBI Accession No.

NP_003245

Alternative Names

Metalloproteinase inhibitor 1, EPA, EPO, HCI, CLGI, TIMP

PRODUCT SPECIFICATION

Molecular Weight

23 kDa (205aa)

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE, Denatured

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

TIMP1 also known as metalloproteinase inhibitor 1. The matrix metalloproteinases are inhibited by specific endogenous tissue inhibitors of metalloproteinases (TIMPs), which comprise a family of four protease inhibitors: TIMP1, TIMP2, TIMP3 and TIMP4. Overall, all MMPs are inhibited by TIMPs once they are activated but the gelatinases (MMP-2 and MMP-9) can form complexes with TIMPs when the enzymes are in the latent form. The complex of latent MMP-2 (pro-MMP-2) with TIMP-2 serves to facilitate the activation of pro-MMP-2 at the cell surface by MT1-MMP (MMP-14), a membrane-anchored MMP. The role of the pro-MMP-9/TIMP-1 complex is still

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unknown. Recombinant human TIMP1, fused to His-tag at N-terminus, was expressed in E. coli.

Amino acid Sequence

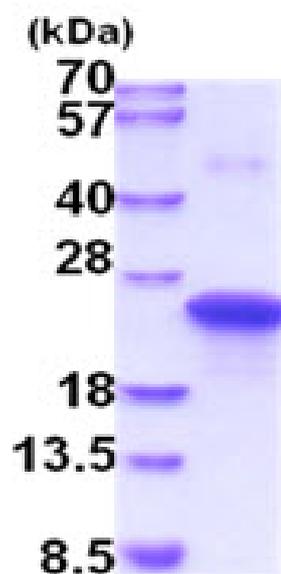
MGSSHHHHHHH SSSLVPRGSH MCTCVPPHPQ TAF CNSDLVI RAKFVGTPEV NQTTLYQRYE IKMTKMYKGF QALGDAADIR
FVYTPAMESV CGYFHRSHNR SEEFLLIAGKL QDGLLHITTC SFVAPWNSLS LAQRRGFTKT YTVGCEECTV FPCLSIPCKL
QSGTHCLWTD QLLQGSEKGF QSRHLACLPR EPGLCTWQSL RSQIA

General References

Brew K., et al. (2000) *Biochim Biophys Acta* 1477 (1-2): 267-83.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)